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This listing of the claims replaces all prior versions in the application.

Listing of Claims:

(Original) A self-aligned contact structure comprising:

a plurality of spaced apart gate electrodes disposed on a semiconductor substrate with the gate electrodes having opposing first and second sidewalls and top and bottom surfaces, wherein adjacent sidewalls of selected neighboring gate electrodes have respective upper portions that angle toward each other to present a sloped profile;

a first liner layer that is disposed on the semiconductor substrate and covers one of the first and second sidewalls, a minor portion of the other sidewall and a major portion of the top surface of the gate electrodes;

a plurality of self-aligned contact pads that are separately electrically connected to selected regions of the semiconductor substrate, each self-aligned contact pad having opposing upwardly extending sidewalls, wherein a respective self-aligned contact pad is positioned between the selected neighboring gate electrodes, and have a length sufficient so that the self-aligned contact pads extend a distance above the top surface of the gate electrodes;

an interlayer insulation layer disposed on the first liner layer above the top surface and about selected sidewalls of respective gate electrodes, the selected sidewalls of respective gate electrodes being those sidewalls that are positioned away from the self-aligned contact pad electrodes; and

a second liner layer disposed on the angled portions of the adjacent sidewalls of neighboring gate electrodes.

2. (Original) The device of claim 1, wherein the gate electrodes are configured so that the second liner layer extends in a generally downward direction in a self-aligned contact window that holds the self aligned contact pad and is configured to extend above the top surfaces of the gate electrodes and down to an impurity diffusion region in the semiconductor substrate.

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- 3. (Original) The device of claim 1, wherein the first liner layer has a thickness that is substantially the same over the gate electrodes.
- 4. (Original) The device of claim 1, further comprising a buffer insulation layer positioned proximate an upper portion of respective self-aligned contact pads between the second liner layer and sidewalls of the self aligned contact pad.
- 5. (Original) The device of claim 1, wherein the first and second liner layers comprise silicon nitride and the interlayer insulation layer comprises silicon oxide.
- 6. (Original) The device of claim 4, wherein the first and the second liner layers comprise silicon nitride, and the interlayer insulation layer and the buffer insulation layer comprise silicon oxide.
- 7. (Original) The device of claim 6, wherein the interlayer insulation layer comprises silicon oxide layer and the buffer insulation layer comprises silicon oxide that surrounds an upper portion of the self-aligned contact pad and terminates a distance above the semiconductor substrate.

Claims 8-26 (Canceled).

Claims 27-29 (Canceled).

30. (Previously Presented) An integrated circuit assembly, comprising:
a plurality of gate electrodes disposed on a substrate, the gate electrodes having
opposing sidewalls and top and bottom surfaces, wherein portions of selected adjacent
sidewalls of neighboring electrodes angle generally downwardly and inwardly toward each
other while the opposing sidewall of each of the selected sidewalls are substantially linear;
a plurality of elongate contact windows, a respective one positioned between the

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selected sidewalls of neighboring electrodes, wherein the contact window sidewalls comprise an angled profile that correspond to the angled gate electrode sidewall configuration;

a contact pad disposed in each contact window, the contact pad extending generally downwardly and having a length that is greater than the height of the gate electrodes;

a gate protection liner layer that extends in the contact window and covers the angled sidewall portion of a respective gate electrode; and

a first liner layer that covers the remaining surfaces of the top and opposing sidewalls of the respective gate electrode,

wherein the angled sidewall is configured on the second sidewall of a first gate electrode and on the first sidewall of the adjacent sidewall of the neighboring second electrode, wherein the first sidewall of the first gate electrode and the second sidewall of the second electrode are generally vertical, wherein the first liner layer covers: (a) greater than a major portion of the top surface of both the first and second gate electrodes; (b) a minor portion of the second sidewall of the first gate electrode and minor portion of the first sidewall of the second gate electrode; and (c) the entire length of the first sidewall of the first electrode and the second sidewall of the second electrode.

Claims 31-36 (Canceled).

37. (Currently Amended) A self-aligned contact structure comprising:

two adjacent gate electrodes on a substrate, each gate electrode having opposing first and second sidewalls and a top surface, wherein the first sidewalls of respective gate electrodes have respective upper portions that angle toward each other to present a sloped profile and the second sidewalls of respective gate electrodes are substantially vertical a top portion narrower than a bottom portion and sidewalls;

[[a]] at least one silicon nitride liner directly contacting completely all the gate electrode sidewalls and the top surface of each gate electrode portion; and

a self-aligned contact pad between the first sidewalls of the adjacent two gate electrodes to be electrically connected to the substrate between the adjacent two gate

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electrodes, the self-aligned contact pad protruding from [[a]] the top surface of each gate electrode.

- 38. (Previously Presented) The self-aligned contact structure of Claim 37, further comprising a buffer insulating layer between the silicon nitride liner and the self-aligned contact pad at the top portion of each gate electrode.
 - 39. (Currently Amended) The self aligned contact structure of Claim 38 A self-aligned contact structure comprising:

two adjacent gate electrodes on a substrate, each gate electrode having a top portion narrower than a bottom portion and sidewalls;

a silicon nitride liner directly contacting the sidewalls and top portion of each gate electrode:

a self-aligned contact pad between the adjacent two gate electrodes to be electrically connected to the substrate between the adjacent two gate electrodes, the self-aligned contact pad protruding from a top surface of each gate electrode; and

a buffer insulating layer between the silicon nitride liner and the self-aligned contact pad at the top portion of each gate electrode,

wherein the buffer insulating layer comprises a silicon oxide layer.

40. (Currently Amended) The self-aligned contact structure of Claim 37, A self-aligned contact structure comprising:

two adjacent gate electrodes on a substrate, each gate electrode having a top portion narrower than a bottom portion and sidewalls;

a silicon nitride liner directly contacting the sidewalls and top portion of each gate electrode; and

a self-aligned contact pad between the adjacent two gate electrodes to be electrically connected to the substrate between the adjacent two gate electrodes, the self-aligned contact pad protruding from a top surface of each gate electrode,

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wherein the silicon nitride liner contacts the self-aligned contact pad at the bottom portion of each gate electrode abutting an interior liner thereat to define a thicker covering at the bottom portion of the gate electrode than other parts thereof.